

CLAIM AMENDMENTS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Amended) A multi-protocol adapter for communicating with one or more remote computers over any one of a plurality of protocols, the adapter comprising:

an integrated CPU including an embedded operating system, said operating system including software interface modules and device drivers for one or more of interrogating, monitoring, retrieving data, downloading data, recording data, revising data and performing diagnostics over any one of the plurality of protocols, wherein the operating system is capable of simultaneously communicating with the one or more computers running different protocols; and

a plurality of daughter board interface slots for accepting at least one daughter board interface modules for expanding the protocols of the multi-protocol adapter.

2. Cancelled.

3. Cancelled.

4. (Previously Amended) A multi-protocol adapter for communicating with one or more remote computers over any one of a plurality of protocols, the adapter comprising:

an integrated CPU having an embedded operating system, said operating system including software interface modules and device drivers for one or more of interrogating, monitoring, retrieving data, downloading data, recording data, revising data and performing diagnostics over any one of the plurality of protocols, wherein the operating is capable of simultaneously communicating with the one or more computers running different protocols;

the CPU having simultaneous interaction between at least one multiple device using multiple protocols;

at least one daughter board having interconnect slots;

an interface for interconnection of the at least one daughterboard;

a serial port for diagnostics and system maintenance;

a flash socket for storage of system software;

a slot for connection of a peripheral;

a socket for connection of RAM;

an interface for connection of system RAM;

an interface for connection of mass-storage devices;

a battery for clock and configuration memory backup;

an infrared serial interface; and

a piezoelectric speaker.

5. (Previously Amended) The multi-protocol adapter according to claim 1 wherein the embedded operating system comprises Linux operating system.

6. (Previously Amended) The multi-protocol adapter according to claim 1, the adapter further comprising:

means for defining communication routines between the adapter and a client via a host device, and

means for communicating between the adapter and the client after definition of communication routines between the adapter and the client.

7. (Previously Amended) The multi-protocol adapter according to claim 1, the adapter further comprising:

a TCP/IP connection established between two software elements, the connection of serial multiplex network messages between software entities being generalized without knowledge of a specific type of multiplex network.

8. (Previously Amended) The multi-protocol adapter according to claim 1 further comprising:

a server program handling communications between a source entity and a destination entity.

9. (Previously Amended) The multi-protocol adapter according to claim 1 further comprising:

at least one of message scheduler, a message responder, a message filter or a script loader.

10. Cancelled.

11. Cancelled.

12. (Original) The multi-protocol adapter according to claim 1 further comprising:

an on-board web server.

13. (Original) The multi-protocol adapter according to claim 12 further comprising:

communication between users of the adapter and the adapter via a web browser technology.

14. (Original) The multi-protocol adapter according to claim 13 further comprising communication between users of the adapter and the adapter via a web browser via HTML.

15. (Previously Presented) The multi-protocol adapter according to claim 1 wherein the plurality of protocols are selected from the group consisting of controller

area network protocols, J1850 protocols, key word protocol 2000, and UART-based protocols.

16. (Previously Presented) The multi-protocol adapter according to claim 1 wherein the daughter board interface modules are selected from the group consisting of SAJ1850, UBP, CCD, SCI, CAN, SAEJ1587, J1939, J2284, J2411, ISO 11992, 9141-2 and KWP2000 modules.